



Instruction Manual

AVT-6114
1x4 HDMI v1.3 Splitter

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1.0 INTRODUCTION

Thanks for purchasing this product from the AV Toolbox Division of TV One. The AVT-6114 1x4 HDMI v1.3 Splitter allows distribution of an HDMI signal to 4 displays or other HDMI compliant devices. This version v1.3 HDMI device supports all standard High Definition Television formats, PC formats from XGA through UXGA as well as providing transport of embedded HD-Audio, including Dolby® TrueHD and DTS-HD. This is but one of our complete range of video and audio products.

1.1 Liability Statement

Every effort has been made to ensure that this product is free of errors. TV One cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user of the hardware to check that it is suitable for his/her requirements and that it is installed correctly. All rights reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

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1.2 Features

- Conforms to HDMI v1.3 and HDCP v1.1 Specifications.
- Allows distribution of HDMI or PC signals to 4 different devices.
- Supports combined I/O cable runs to 20 meters (65 Feet).
- Supports SDTV and HDTV: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p
- Supports High Resolution PC Video Inputs (XGA through UXGA).
- Supports distribution of embedded Audio.
- Simple installation and operation.

1.3 Getting the Best Results

There are many factors affecting the quality of results when distributing HDMI type signals. Some basic precautions will ensure the best possible performance from your AVT-6114 1x4 HDMI v1.3 Splitter.

- **Output display device_**– The quality of the output signal will depend largely upon the type and quality of the HDMI display device used. For instance, some video projectors just look better than others.
- **Distance between the switcher, the sources and the display** – This plays a major role in the final result. Long distances are possible, but special measures should be taken in order to avoid cable losses. These include using high quality cables. Line amplifiers may also be necessary for the longest runs.
- **Input/Output connection cables** – Low quality cables are susceptible to interference. They degrade signal quality due to poor matching and can cause elevated noise levels. Cables should be of the best quality.
- **Interference from nearby electrical devices** – These can have an adverse effect on signal quality. For example, an older computer monitor often emits very high electromagnetic fields that can interfere with the performance of video equipment in its proximity.

2.0 SPECIFICATIONS

Input Format	HDMI Version 1.3, HDCP Version 1.1
Input Signal Types	HDMI HDTV (and PC Video with optional adapter)
Freq. Bandwidth	2.25Gbps (Single Link)
Cable Run Length	20 Meters (65 Ft) total combined Input/Output cable length
Output Format	HDMI v1.3, HDCP v1.1
Output Signal Types	HDMI v1.3; HDTV to 1080p, PC to UXGA
Input Connector	1x Type A HDMI Female
Output Connectors	4x Type A HDMI Female
Device Control	Plug and Play
Weight	0.48lbs (220g)
Dimensions—HxWxD	1"x5.6"x2.6" (25x142x66mm)
Power Source	100~240VAC to 5VDC/2.6A Adapter

3.0 CHECKING PACKAGE CONTENTS

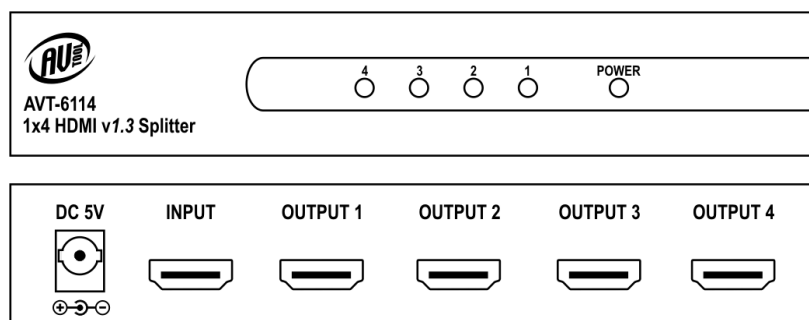
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x AVT-6114 1x4 HDMI v1.3 Splitter
- 1x 100~240VAC to 5VDC Power Adapter
- 1x User Manual

Note: Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

4.0 CONNECTING THE HARDWARE

Connect the HDMI Video Source to the input of the AVT-6114 Splitter, connect its outputs to HDMI Compliant monitors — or other HDMI compliant devices — and then connect the AC to DC Power Adapter. The drawings below show the location of the status LEDs, input, outputs and power connector.



4.1 Connecting the Input to the AVT-6114

You can connect any HDMI device's output to the AVT-6114's input. Make certain that the HDMI cable is securely plugged into the source device as well as the AVT-6114. Always use a high quality cable, as short a length as possible, for best results.

4.2 Connecting the AVT-6114 to Displays

Using high quality HDMI cables connect the outputs of the AVT-6114 to a total of four (4) HDMI compliant display devices. Use the shortest cable run possible.

4.3 Connecting Power to the AVT-6114

The AVT-6114 is shipped with a Power Adapter to convert 100~240VAC@50-60Hz to 5VDC. Connect the DC Output Cable from the Power Adapter to the back of the unit and then plug the Power Adapter into an AC Receptacle. (The Power Adapter DC plug has a TV One/AV Toolbox exclusive locking feature that prevents it from inadvertently coming loose. Insert the DC plug from the AC Adapter into the AVT-6114's DC connector and turn it 90 degrees to lock it in position. If removal is ever required, reverse the process by first turning the plug 90 degrees and then removing it from the AVT-6114.) The AVT-6114 will begin to function as soon as AC power is supplied to the AC adapter.

5.0 OPERATING THE AVT-6114

The AVT-6114 1x4 HDMI Splitter requires no operator intervention. If both the input and the outputs are HDMI compliant, the Splitter will function as soon as power is supplied. LED displays indicate which output is active and a Power LED indicates when the unit is receiving power.

6.0 TROUBLESHOOTING

In the event of problems, first make certain that the input and output cables are no more than 65 feet long (combined length, input and output cables) and are of the highest possible quality. Next, make certain that the Splitter is receiving power.

If all is well in these areas, remember that HDMI devices communicate with one another so the source device and destination devices must be fully HDMI capable. In addition, HDCP encryption requires additional processing which also is dependent on the equipment you have connected to the source and destination devices. If you experience problems using the AVT-6114 HDMI Splitter, you should attempt to determine what is wrong by attaching the source device directly to each destination device using the same cables you are using with the expanded system. This is a way of determining if the problem is due to

bad cables or a problem with the other devices. If you are unable to obtain a signal using this simplified path, suspect the cables, the source device or the destination device(s).

After trying the above suggestions should the problem still persist, contact your dealer for additional suggestions before contacting TV One. Should the dealer's technical personnel be unable to assist you, contact TV One via our support website: <http://tvone.crmdesk.com>. Create a technical support request on the site and our support team will respond within a short period of time.

7.0 LIMITED WARRANTY

LIMITED WARRANTY – With the exceptions noted in the next paragraph, AV Toolbox warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of one year from the date of purchase. Should this product, in AV Toolbox's opinion, prove defective within this warranty period, AV Toolbox, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of AV Toolbox. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into AV Toolbox products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to AV Toolbox. If repairs are necessary under this warranty policy, the original purchaser must obtain a Return Authorization Number from AV Toolbox and return the product to a location designated by AV Toolbox, freight prepaid. After repairs are complete, the product will be returned, freight prepaid.

LIMITATIONS - All products sold are "as is" and the above Limited Warranty is in lieu of all other warranties for this product, expressed or implied, and is strictly limited to one year from the date of purchase. AV Toolbox assumes no liability to distributors, resellers or end-users or any third parties for any loss of use, revenue or profit.

AV Toolbox makes no other representation of warranty as to fitness for the purpose or merchantability or otherwise in respect of any of the products sold. The liability of AV Toolbox with respect to any defective products will be limited to the repair or replacement of such products. In no event shall AV Toolbox be responsible or liable for any damage arising from the use of such defective products whether such damages be direct, indirect, consequential or otherwise, and whether such damages are incurred by the reseller, end-user or any third party.

8.0 REGULATORY COMPLIANCE

The AVT-6114 has been tested for compliance with appropriate FCC and CE rules and regulations. The Power Adaptor/Supplies have been tested for compliance with appropriate UL, CUL, CE, PSE, GS Rules, Regulations and/or Guidelines. These Products and Power Adapters are RoHS Compliant.

9.0 CONTACT INFORMATION

Should you have questions or require assistance with this product in areas not covered by this manual, please contact TV One at the appropriate location.

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